

Date: Mon, 14 Jun 93 10:44:58 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #725
To: Info-Hams

Info-Hams Digest Mon, 14 Jun 93 Volume 93 : Issue 725

Today's Topics:

6M multi-hop Es to the US
[To: info-hams: Surplus in Seattle]
Alinco DJ-580T Help Needed
AM Broadcast Radio Antenna
antennas for mounting off a balloon
Entry Level HF Rigs
ham radios in movies
IC-W21AT
Making new home HAM FRIENDLY (2 msgs)
Mixers (not eggbeaters)
Need 820 power requirements
Packet, AX.25 & KISS info request
Rat Shack & SAM
SM-200 vs. SM-230
Surplus in Seattle
WWV on telephone (4 msgs)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 14 Jun 93 09:53:20 EST
From: titan.ksc.nasa.gov!k4dii.ksc.nasa.gov!user@ames.arpa
Subject: 6M multi-hop Es to the US
To: info-hams@ucsd.edu

I'm fairly new to 6 Meter SSB, so haven't had much chance to listen to
where the "action" is on the band. It apparently doesn't open up very

often at this phase of the Sunspot Cycle. So far, I only have a 6 meter magnet-mount antenna on the car. I am in the process of putting a dipole in the attic, for use with a Kenwood TS-690.

I noticed the band was open Saturday (6/12/93). I also heard one CW station just below 50.100. It seems to me that the best DX would be on CW, since there would be less of a pile-up, and signals wouldn't have to be as strong.

Can any of you experienced 6 Meter operators give me some advice? Is there a single frequency that would be good to monitor, to hear early signs of a band opening? Where do DX CW stations hang out? Many seem to be collecting "grid squares". Are they only interested in the first 4 characters, or does anyone want all 6?

73, Fred, K4DII
(EL98np)

fred-mckenzie@ksc.nasa.gov

Date: 14 Jun 93 16:34:20 GMT
From: news-mail-gateway@ucsd.edu
Subject: [To: info-hams: Surplus in Seattle]
To: info-hams@ucsd.edu

----- Forwarded message # 1:

Date: Mon, 14 Jun 93 8:16:38 EDT
From: Clark Fishman (FSAC-FCD) <cfishman@PICA.ARMY.MIL>
To: info-hams@ucsd.edu
cc: cfishman@PICA.ARMY.MIL
Subject: Surplus in Seattle
Message-ID: <9306140816.aa08299@FSAC3.PICA.ARMY.MIL>

I am going to Seattle and area for a while.

Does anyone in net land know of ham and surplus electronic stores in that area???

Clark Fishman cfishman@pica.army.mil

phone toll free: 800-275-2197 (at message enter: 46940)

----- End of forwarded messages

Date: 14 Jun 93 16:18:55 GMT
From: news.tek.com!gvgpsa.gvg.tek.com!gold.gvg.tek.com!groverc@uunet.uu.net
Subject: Alinco DJ-580T Help Needed
To: info-hams@ucsd.edu

I just traded in my FT-470 for an Alinco DJ580T. I have some questions:

1. In repeat mode, the radio does not seem to output PL under any circumstances. Is this correct?
2. For non-standard splits, it seems that I'm limited to putting the transmit frequency into the vfo. Is there a clever workaround.
3. For non-standard splits I learned that the PL tones and mode must be contained in the receive side, not in the vfo. Weird.
4. The manual seems to be very wrong about the autodial procedure. I simply press the FN button while holding the PTT to transmit the dtmf tones. But is there some way to turn off the dtmf function altogether without erasing one of the dtmf memories?
5. Is there a better version of the manual available from some source, perhaps even electronically? I have a feeling that there is a great deal that the manual is not telling me, not to mention that the manual is inaccurate.

73 and thanks,

Grover WT6P

groverc@gold.gvg.tek.com

Date: Mon, 14 Jun 1993 12:33:33 GMT
From: sdd.hp.com!apollo.hp.com!hpwin052!hpqmoea!dstock@network.UCSD.EDU
Subject: AM Broadcast Radio Antenna
To: info-hams@ucsd.edu

Gary Coffman (gary@ke4zv.uucp) wrote:

: solution is an outside antenna. If you don't mind the appearance,
: an auto broadcast radio salvaged from a junkyard, along with it's

: antenna, will work fine if you locate the antenna outside the
: shell of the building. These radios are better designed to deal
: with harsh RF environments than the normal table model radio,
: and they're already equipped to use an outside antenna. Not
: to mention you can get a nice one for about \$15. If you're
: handy, you can build it, and a 12 volt power supply into a
: speaker cabinet and everyone will oooh and aaah over your
: pushbutton table radio. I use one in my shop which is a
: metal building.

This is certainly true, it's amazing that portable/fixed entertainment
radios haven't kept up with car radio features. RDS is a real treat.

There is one possible problem, on 0.5 to 1.6 MHz the car antenna is
very short, and looks like a high impedance. The radio is designed to
attend to this. The coax on an antenna is peculiar high impedance stuff
to minimise the capacitance to ground to minimise the capacitive
potential divider effect. Radios often have a trimmer capacitor to allow
you to compensate the effect to different antenna/cable lengths pulling
the first tuned circuit. If you used a car antenna and added a long
length of 50 ohm coax, there would be a lot of signal loss. On mainland
Europe, tiny car antennae with fet preamps are common, some Brit fords
have a matcher/preamp box in the feed to the electrical heater wires in
the rear window. Something of this nature might be needed if your cable
run is long.

Cheers

David GM4ZNX

Date: Mon, 14 Jun 1993 16:11:03 GMT

From: swrinde!gatech!willis1.cis.uab.edu!right.dom.uab.edu!user@network.UCSD.EDU

Subject: antennas for mounting off a balloon

To: info-hams@ucsd.edu

I am looking at some designs for an antenna to hang off a helium
balloon. The plan is to connect transceiver through balun and
impedance matching to twin lead to balloon. Up there I see
options such as impedance match to balun to quarterwave, direct
connect to J pole with twin lead, or folded dipole hung vertically.

a few questions, if I may:

The J-pole will be made of twin lead, shorted at the bottom of the short
and long arm, and each side of the twin lead connected at the same
distance up from the short. How might I route the twin lead to the
J-pole? I assume I should not run it parallel, considering

interaction of the twin lead and the phasing stub.

If I hang a folded dipole vertically, how should I run the twin lead to the folded dipole? Again, I am concerned about interaction between feed line and antenna - do I need to be concerned.

Thanks,
Steve Holland, KD4TTC, Birmingham, AL

Date: Mon, 14 Jun 1993 14:00:06 GMT
From: swrinde!gatech!howland.reston.ans.net!darwin.sura.net!news-feed-1.peachnet.edu!rigel.econ.uga.edu!memac.ucns.uga.edu!user@network.UCSD.EDU
Subject: Entry Level HF Rigs
To: info-hams@ucsd.edu

Has anyone had any experience with the REntry LevelS HF rigs like the :

Kenwood TS 140S
Yaseu FT747GX
Icom 725 and 728

These rigs are all available for less than \$900. For around \$1100 the Kenwood TS450 and Yaseu FT890 are available. I am sure myself and other soon to be amateurs would benefit from any experiences that you have had with any of these rigs. In the entry level class all these units are fairly close in features. Also, how important is the FM mode which the FT747GX and Icom 725 and 728 omit? Is it worth paying extra for 6M on the Icom 729 and Kenwood TS690 ? Do any of these units have a better receiver section than the other ? Any features more valuable than others ? Any information would be appreciated.

Thanks in Advance

Date: Mon, 14 Jun 1993 15:59:17 GMT
From: spsgate!mogate!newsgate!news@uunet.uu.net
Subject: ham radios in movies
To: info-hams@ucsd.edu

Not exactly ham radio, but did anyone recognize the HT's they used in Jurassic Park?

Great flick, BTW. Ought to make Spielberg & Universal a zillion

dollars.The book was better, tho.

73.... Mark AA7TA

Date: 14 Jun 93 16:17:48 GMT
From: news-mail-gateway@ucsd.edu
Subject: IC-W21AT
To: info-hams@ucsd.edu

Hi--

Does anyone have any information on the new Icom Dual Bander the IC W21AT...
..It looks like an interesting HT, and I'm in the market for a new rig. Also d
o any mods exist for the rig yet...Thanx Gary KE9MI

Internet: ST1860@siucvmb.siu.edu
Bitnet: ST1860@siucvmb.bitnet

Date: Mon, 14 Jun 1993 12:59:46 GMT
From: sdd.hp.com!apollo.hp.com!hpwin052!hpqmoea!dstock@network.UCSD.EDU
Subject: Making new home HAM FRIENDLY
To: info-hams@ucsd.edu

I read the reply about lots of circuits, 220v 110v, bench lamps off
of a light switch by door with interest as it breaks my number one
safety rule.

Should you ever have an accident, it is likely that the people who
would have to try to save you will be unfamiliar with your shack, and
may never work out which circuit is biting you.

I feel happier in the vicinity of a large switch in a fully
insulated plastic box in easy reach of someone entering the shack, with
a bright red arrow and the words "safety switch" pointing to it, which
kills all power in the shack.

It has never happened to me, so far, and I've designed power supplies
as part of my job, BUT should it happen I want the dice loaded to favour
me.

For multiple circuits, you'd need a set of ganged switches. It is
also a good way to shut down without bothering to find everything that
is turned on.

Hope you never need this,

Cheers

David GM4ZNX (everything is on 240v in this country)

Date: Mon, 14 Jun 1993 15:36:00 GMT
From: usc!howland.reston.ans.net!darwin.sura.net!rsg1.er.usgs.gov!
resdgs1.er.usgs.gov!tbodoh@network.UCSD.EDU
Subject: Making new home HAM FRIENDLY
To: info-hams@ucsd.edu

In article <C8M43M.Jor@hpbmqmoea.sqf.hp.com>, dstock@hpbmqmoca.sqf.hp.com (David Stockton) writes:

|> I read the reply about lots of circuits, 220v 110v, bench lamps off
|> of a light switch by door with interest as it breaks my number one
|> safety rule.

|>

|>

|> Should you ever have an accident, it is likely that the people who
|> would have to try to save you will be unfamiliar with your shack, and
|> may never work out which circuit is biting you.

|>

|> I feel happier in the vicinity of a large switch in a fully
|> insulated plastic box in easy reach of someone entering the shack, with
|> a bright red arrow and the words "safety switch" pointing to it, which
|> kills all power in the shack.

|>

|> It has never happened to me, so far, and I've designed power supplies
|> as part of my job, BUT should it happen I want the dice loaded to favour
|> me.

|>

|> For multiple circuits, you'd need a set of ganged switches. It is
|> also a good way to shut down without bothering to find everything that
|> is turned on.

|>

|> Hope you never need this,

|>

|> Cheers

|> David GM4ZNX (everything is on 240v in this country)

--

I would also suggest ground fault interrupt protection...

++++
+ Tom Bodoh - Sr. systems software engineer

+
+ USGS/EROS Data Center, Sioux Falls, SD, USA 57198 (605) 594-6830 +
+ Internet; bodoh@dgg.cr.usgs.gov (152.61.192.66)

+
+ "Welcome back my friends to the show that never ends!" EL&P
+

+++++

Date: Mon, 14 Jun 1993 15:05:11 GMT
From: usc!sdd.hp.com!hp-cv!hp-pcd!hpcvsnz!mcross@network.UCSD.EDU
Subject: Mixers (not eggbeaters)
To: info-hams@ucsd.edu

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Insert Standard Disclaimer notice here:

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/ /  ---
/ /  Hewlett-Packard Integrated Circuits Business Div. - Corvallis
/ /  1050 NE Circle Blvd.
/ /  Corvallis, OR 97330-4299
/ /  -----
/ /  AT&T: (503) 750-2044
/ /  HP telnet 750-2044 FAX (503) 750-3221
/ /  }!hplabs!hp-cv!mcross
/ /

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Date: 14 Jun 93 15:03:19 GMT
From: news-mail-gateway@ucsd.edu
Subject: Need 820 power requirements
To: info-hams@ucsd.edu

A friend has asked that I design a mobile 12 volt power supply to run an 820. Will someone please provide the voltage and current requirements for an 820. I'm told the total power is 200 watts. I suspect that PEP is 200 watts, but don't know as I'm not familiar with the radio.

73
Thank you in advance

Hugh Wells, W6WTU

Date: 14 Jun 93 16:17:56 GMT
From: news-mail-gateway@ucsd.edu

Subject: Packet, AX.25 & KISS info request
To: info-hams@ucsd.edu

I know this is not the best place to post this question, but I do not yet have network news up and running here, and I do not know if there is a mail relay to rec.radio.amateur.packet, so I'll have to ask here.

Is there a place on the net from which I can ftp documentation for the above protocols? I mean detailed stuff to experiment with. If not, can somebody recommend a good book describing these protocols? Thanks in advance.

***** oops (The object of my afflictions) *****
Randy Bradley; (402)762-4156; email: bradley@marcvm.marc.usda.gov
US Meat Animal Research Center
Clay Center, Ne. 68938

Date: Mon, 14 Jun 1993 17:32:21 GMT
From: pa.dec.com!nntpd2.cxo.dec.com!nuts2u.enet.dec.com!little@decwrl.dec.com
Subject: Rat Shack & SAM
To: info-hams@ucsd.edu

kd4cim@vulcan.com (Jerry Pruett - KD4CIM) writes:

>Well, I scrogged again. Anyone should know better than to go into Radio
>Shack.
>
>Anyway, RS has started carrying the SAM Hamcall database. In a stupid
>impulse, I bought the thing and then really got down to reading too late.
>The date of the database is July, 1992. I must admit that there is a
>coupon that I can send in \$10 and get the one for November, 1992.
>
>11/92 still seems a little old to be charging 39.95 + 10.00 + 3.00 (S&H).
>
>I shudda known better than to deal with Rat Shack!!!!

Before you slam Radio Shack, have you tried returning it? I have yet to see Radio Shack *not* take something back. I suspect the SAM Hamcall database is a little different than most software RS carries (how many other software packages are quite as date sensitive?)

73,
Todd
N9MWB

Date: 14 Jun 93 12:16:36 GMT
From: news-mail-gateway@ucsd.edu
Subject: SM-200 vs. SM-230
To: info-hams@ucsd.edu

What's the difference between these two Kenwood monitors?
(besides price & appearance, that is.) They're advertised so
seldom that it's hard for me to find any information.

MRO

```
*****
Michael R. Owen, Ph.D.                                a.k.a.: W9IP
Department of Geology                                Northern Lights Software
St. Lawrence University                               Star Route, Box 60
Canton, NY 13617                                     Canton, NY 13617
(315) 379-5975          - voice -                    (315) 379-0161 (6-9pm)
e-mail: MOWE@SLUMUS      FAX   -                    (315) 379-5804
*****
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Date: 14 Jun 93 12:16:38 GMT
From: news-mail-gateway@ucsd.edu
Subject: Surplus in Seattle
To: info-hams@ucsd.edu

I am going to Seattle and area for a while.

Does anyone in net land know of ham and surplus
electronic stores in that area???

Clark Fishman cfishman@pica.army.mil

phone toll free: 800-275-2197 (at message enter: 46940)

Date: 14 Jun 93 13:07:26 GMT
From: news-mail-gateway@ucsd.edu
Subject: WWV on Telephone
To: info-hams@ucsd.edu

Here's the problem with the commercial Vandenburg number. Vandy
has in the recent past, upgraded their telephone switches. As a
result, the old 805-86X prefixes were (are being) done away with,

with one central number replacing it.

Now you have to dial 805-734-8232 to get into Vandy. A recording will come on the line, you don't have to wait for it to finish. Dial 63796 and you should be connected to the WWV source, which is a receiver tuned to one of the WWV HF frequencies..

Date: Mon, 14 Jun 1993 14:42:36 GMT
From: sdd.hp.com!col.hp.com!fc.hp.com!jayk@network.UCSD.EDU
Subject: WWV on Telephone
To: info-hams@ucsd.edu

: Also, you can dial Ft. Collins directly (303)499-7111

Actually this isn't a Ft. Collins number. I just dialed it, from here in Ft. Collins, and got a busy signal after I dialed the 499. Think maybe it's a Boulder number??

I only live two miles from WWV. So my problem is trying NOT to receive WWV :-).

73, Jay Kesterson K0GU jayk@fc.hp.com

Date: 14 Jun 93 14:59:53 GMT
From: news-mail-gateway@ucsd.edu
Subject: WWV on telephone
To: info-hams@ucsd.edu

We not only have the following, already mentioned:

- > Master Clock - Wash DC <Naval Observatory>, 202-653-1800
- > Master Clock - Wash DC <Naval Observatory>, 202-653-1920

We also have:

900-410-TIME

(\$0.50 per call) This is transmitted by ground lines only (no satellite links). (The \$0.50 goes to the phone company, not to us!).

Kerry Kingham WA4BQM Internet: kak@CygX3.usno.navy.mil
U.S. Naval Observatory

Washington, D.C.

Date: 14 Jun 93 16:21:27 GMT
From: microsoft!wingnut!laurahal@uunet.uu.net
Subject: WWV on Telephone
To: info-hams@ucsd.edu

In article <wa2iseC8GuyJ.s2@netcom.com> wa2ise@netcom.com (Robert Casey) writes:
>

>Also there is 303-499-7111 Sounds like the audio from WWV. This number
>lets you listen for about 2 minutes, then disconnects.

Yes, this is an audio feed of WWV. You can hear WWVH audio on
(808) 335-4363. Same deal as WWV: it disconnects after 3 minutes.

Everything you ever wanted to know is in an NIST Special Publication
(432?), available free for the asking. It has detailed information on
what WWV* transmit, including the tones, subcarriers, satellites and
much more.

Only problem for me is that after reading this fascinating document
I keep counting the double ticks at the top of the minute, which are
the difference between UTC and UT-1...

73 from Vancouver,
...laura VE7LDH

Date: 14 Jun 93 10:04:06 CST
From: usc!howland.reston.ans.net!math.ohio-state.edu!caen!kuhub.cc.ukans.edu!
heacock@network.UCSD.EDU
To: info-hams@ucsd.edu

References <123@sunriv.UUCP>, <m1f1tmINNrn3@exodus.Eng.Sun.COM>,
<1993Jun11.131013.1561@rsg1.er.usgs.gov>oc
Subject : Re: Ham radio in TV shows

There was an episode of "Benson" wherein Benson and the governor got
trapped on the roof while trying to set up an antenna for the
governor's new ham radio.

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+-----+
Doug Heacock, Academic Computing	heacock@kuhub.cc.ukans.edu
Services, The University of Kansas	heacock@ukanvax.bitnet
Lawrence, KS 66045	Amateur radio: AA0MS

Date: 14 Jun 93 13:41:28 GMT
From: usc!math.ohio-state.edu!magnus.acs.ohio-state.edu!csn!boulder!boulder!
eesnyder@network.UCSD.EDU
To: info-hams@ucsd.edu

Ok, no one has mentioned Jurassic Park so far....

Eric E. Snyder
Department of MCD Biology
University of Colorado, Boulder
Boulder, Colorado 80309-0347

End of Info-Hams Digest V93 #725
